



MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER BUREAU
WELL CONSTRUCTION UNIT
WATER WELL EQUIPMENT APPROVAL LIST

Items marked with a plus (+) have been added to the list since the last revision.

PITLESS WELL ADAPTERS & UNITS

ADVANCE PUMP EQUIPMENT COMPANY

21" SINGLE MODEL THREAD-ON UNIT - SUBMERSIBLE - 4"-8" CASING
EZ WELD-X1-5"-6" CASING
WELD-ON ADAPTER KIT - SUBMERSIBLE - 4"-8" CASING

BOSCOTT, INC.

CLEAR WELL CLAMP-ON PITLESS ADAPTER 4"

DAYTON PRECISION MANUFACTURING COMPANY

DPM-004 C CLAMP-ON ADAPTER - SUBMERSIBLE - 4"-6" CASING

DICKEN MANUFACTURING COMPANY

KLEAR-KASE CLAMP-ON ADAPTER - SUBMERSIBLE - 4"-6" CASING

DUPLEX (WHITEWATER MANUFACTURING COMPANY)

TYPE 1060 SUB THREAD-ON UNIT - SUBMERSIBLE - 4"-6" CASING
TYPE 2015 SUB THREAD-ON UNIT - SUBMERSIBLE - 4"-6" CASING
TYPE 1060 SW THREAD-ON UNIT - SHALLOW WELL JET - 2" CASING
TYPE 1060 J4C THREAD-ON UNIT - DEEP WELL JET - 4" CASING (Out of Production)
TYPE 1060 PJ-C THREAD-ON UNIT - DEEP WELL SINGLE PIPE PACKER - 2"- 3" CASING (3" Out of Production)
TYPE 2000 PJ2-C THREAD-ON UNIT - BACKTAPPED-DEEP WELL SINGLE PIPE PACKER - 2" CASING (Out of Production)
TYPE 2000 SW THREAD-ON UNIT - BACKTAPPED - SHALLOW WELL JET - 2" CASING (Out of Production)

FLOW-RITE PRODUCTS COMPANY, DIVISION OF BRADLYN INDUSTRIES

CLAMP-ON ADAPTER - SUBMERSIBLE - 4"-6" CASING

MAASS, MANUFACTURING

MODEL B WELD-ON ADAPTER - SUBMERSIBLE - 4"-8" CASING
MODEL BX THREAD-ON UNIT - SUBMERSIBLE - 4"-8" CASING
MODEL CD THREAD-ON UNIT - BACKTAPPED - DEEP WELL SINGLE PIPE PACKER JET - 2" CASING (Out of Production)
MODEL CS THREAD-ON UNIT - BACKTAPPED - SHALLOW WELL JET - 2" CASING (Out of Production)
MODEL J WELD-ON ADAPTER - SUBMERSIBLE - 4"-18" CASING
MODEL JC CLAMP-ON ADAPTER - SUBMERSIBLE - 4"-7" CASING
MODEL MB WELD OR THREAD-ON UNIT - SUBMERSIBLE - 8"-26" CASING

MARTINSON MANUFACTURING COMPANY, INC.

C-SERIES CLAMP-ON ADAPTER - SUBMERSIBLE - 4"-6" CASING

MERRILL MANUFACTURING

SP THREAD-ON UNIT - SUBMERSIBLE - 4"-8" CASING
SDP W/CONCENTRIC COUPLING THREAD-ON UNIT - SHALLOW WELL JET - 4"-8" CASING
SPK CLAMP-ON ADAPTER - SUBMERSIBLE - 4"-10" CASING
MCK CLAMP-ON ADAPTER - SUBMERSIBLE - 4"-6" CASING

MONITOR, BAKER MANUFACTURING COMPANY

FIBERLOC POLYMER CAMPSITES PITLESS KIT - 4"-5" CASING
PS THREAD-ON UNIT - SUBMERSIBLE - 4"-10" CASING
PS WELD-ON UNIT - SUBMERSIBLE 12"-26" CASING
PJ CONCENTRIC THREAD-ON UNIT - SHALLOW WELL JET - 2"-3" casing
PJ THREAD-ON UNIT - DEEP WELL SINGLE PIPE PACKER JET - 2"-3" CASING (Out of Production)
PJ THREAD-ON UNIT - TWO-PIPE DEEP WELL JET - 4"-6" CASING (Out of Production)
PR THREAD-ON UNIT - RECIPROCATING (ROD) PUMP - 3"-6" CASING
PL SNAPPY CLAMP-ON ADAPTER - SUBMERSIBLE - 4"-6" CASING
PL SNAPPY WELD-ON ADAPTER - SUBMERSIBLE - 4"-6" CASING
+ 6123BEZ WELD-ON ADAPTER - SUBMERSIBLE - 5", 6" I.D. AND 7" O.D. CASING
+ 8123BEZ WELD-ON ADAPTER - SUBMERSIBLE - 8", 10" AND 12" I.D. CASING

PAULUS PLASTIC COMPANY

PAULUS PLASTIC PITLESS ADAPTER - 4"-5" CASING

SEARS, ROEBUCK & COMPANY, (MANUFACTURED BY BRADLYN INDUSTRIES)

CLAMP-ON ADAPTER - SUBMERSIBLE - 4"-6" CASING

WELLS, INC.

SAFETY-SEAL SERIES A CLAMP-ON ADAPTER - SUBMERSIBLE - 4"-6" CASING
SAFETY-SEAL SERIES P CLAMP-ON ADAPTER - SUBMERSIBLE - 5" PLASTIC CASING ONLY
JA 4-1 3/4X 1C CLAMP-ON ADAPTER - TWO PIPE DEEP WELL JET - 4" CASING

WHITEWATER MANUFACTURING COMPANY

MODEL 52 SU WELD OR THREAD-ON UNIT - SUBMERSIBLE - 4"-20" CASING
MODEL 1J2 CONCENTRIC WELD-ON UNIT-DEEP WELL SINGLE PIPE PACKER JET - 2" CASING
MODEL 2J CONCENTRIC WELD OR THREAD-ON UNIT - TWO PIPE DEEP WELL JET - 4"-6" CASING (Out of Production)
ACE WELD-ON ADAPTER - SUBMERSIBLE - 4"-8" CASING (Out of Production)
QUICKY CLAMP-ON ADAPTER - SUBMERSIBLE - 4"-6" CASING (Out of Production)
MODEL 51-C SUBURBAN CLAMP-ON ADAPTER - SUBMERSIBLE - 4"-6" CASING (Out of Production)
ACE CLAMP-ON ADAPTER - 4"-6" CASING (Out of Production)

WILLIAMS PRODUCTS DIVISION, KLASING INDUSTRIES, INC.

M SUB 3 CLAMP-ON ADAPTER - SUBMERSIBLE - 4"-6" CASING
EZ-UP PITLESS COUPLING - 4"-5" CASING
LIFT-OUT SEAL CLAMP-ON ADAPTER - TWO PIPE DEEP WELL JET - 4"-6" CASING
LIFT-OUT SEAL CLAMP-ON ADAPTER - SUBMERSIBLE - 4"-10" CASING

WELL CAPS

THE FOLLOWING WELL CAPS/SEALS MEET THE REQUIREMENTS SET FORTH IN R 325.1657A OF THE RULES FOR PART 127, ACT 368, PA 1978, MICHIGAN PUBLIC HEALTH CODE. CAPS & VENTING REQUIREMENTS BECAME EFFECTIVE ON MAY 1, 1985.

A & B DIE CASTING
6" Only

BOSCOTT, INC.,
4"-6"

BROTHERS CASTING
WATERTIGHT 6"

CAMPBELL
WTC

CAMPBELL-MARTINSON
LX41
LX51
LX61

DAYTON
WATERTIGHT CAP

DUPLEX
3" CAP FOR 2" SWJ PITLESS UNIT
(Out of Production)

FLOW-RITE
WATERTIGHT CAP

HARVARD
WTC*

LUNDE FOUNDRY, INC.
L-04
L-05
L-06

MAASS **
4"-12"WT

MERRILL
WC 4"-8"
WCA 4"-6"
WCB 4"-10"
WCD 4"-6"
WCM 6"
WCO 4"-6"
WCP 5"-6"

MIDWEST-DICKEN **
WTCC 4"-8"
359 WELL SEAL 2"
459SW CABLE SEAL
W/VENT CAP*

MONITOR (BAKER)
3" CAP* (FOR 2" SWJ PITLESS UNIT)
TURTLE 4"-7" CAP
WATERTIGHT CAP*

PAULUS
PLASTIC WELL CLOSURE 4"-5"

W.D.B., Inc
WTC Well Cap

WELLS
WT
WC
SC

WHITEWATER
MODEL 100 (Out of Production)
MODEL 200 (Out of Production)
MODEL 300

WILLIAMS
WTV

*NOTE: THESE CAPS HAVE SEPARATE VENTS WHICH MUST BE THREADED INTO THE CAP
NOTE: THESE COMPANIES ARE NOW CALLED **MAASS-MIDWEST

VENTS MUST BE INSTALLED ON ALL WELLS EXCEPT THOSE HAVING DEEP WELL, SINGLE PIPE, PACKER-JET INSTALLATIONS OR ON FLOWING WELLS.

APPROVED HAND PUMPS

THE HAND PUMPS LISTED BELOW MEET THE REQUIREMENTS OF RULE 153 OF PART 127, ACT 368, PA OF 1978, MICHIGAN'S GROUNDWATER QUALITY CONTROL ACT AND MAY BE USED ON PUBLIC OR PRIVATE WATER SUPPLIES. THESE HAND PUMPS HAVE A CLOSED SPOUT, DIRECTED DOWNWARD, AND A PUMP ROD THAT OPERATES THROUGH A STUFFING BOX AND PACKING NUT.

DEEP WELL HAND PUMPS (LIFT CYLINDER REQUIRED)

COLUMBIANA FIGURE 80*, SINGLE ACTING FORCE PUMP
DEMPSTER MODEL 210F AND 226F FORCE PUMP; (**NEW**) MODEL 23F AND MODEL 40F
HELLER-ALLER (SEE HITZER INC)
HITZER INC MODEL 50-L*, 50-A*, AND ASB FORCE PUMP (FORMERLY "HELLER-ALLER")
MONITOR BAKER MODEL 11HD, 11HDS**, 12HD, AND 12HDS** FORCE PUMP STAND
MONITOR BAKER MODEL 1DFHC, 1DFHCS**, 1DFHF, AND 11 DFHFS** DRINKING FOUNTAIN STAND
ROBBINS & MYERS MODELS 1V12, 2V12 ROTARY HAND+

SHALLOW WELL HAND PUMPS (LIFT CYLINDER BUILT INTO PUMP)

COLUMBIANA FIGURE 55-3 HOUSE FORCE PUMP
HELLER-ALLER (SEE HITZER INC)
HITZER INC FIGURE PHB HOUSE FORCE PUMP (FORMERLY "HELLER-ALLER")

*THESE HAND PUMPS USE THE DROP PIPE INTO THE WELL AS THE PUMP BASE OR MAY BE THREADED ONTO A 2" WELL CASING BY USING A 2" X 1 1/4" REDUCER. IF THE DROP PIPE IS USED AS A PUMP BASE, THE OPENING BETWEEN THE DROP PIPE AND WELL CASING MUST BE SEALED USING A WELL CAP BASE AND SANITARY WELL SEAL.

**THESE HAND PUMPS INCLUDE A SHROUD WHICH PROVIDES ADDITIONAL SANITARY PROTECTION BY ENCLOSING THE PUMP ROD AND PACKING NUT.

+THIS PUMP OPERATES WITH A ROTATING PUMP ROD AND HAS A HAND OPERATED GEAR BOX RATHER THAN A LEVER-FULCRUM TYPE HANDLE OPERATING A RECIPROCATING PUMP ROD THROUGH A PACKING NUT.

YARD HYDRANTS

Items marked with a plus (+) have been added to the list since the last revision.

THE FOLLOWING FROST-PROOF YARD HYDRANTS DO NOT USE A STOP-AND-WASTE VALVE AND ARE APPROVED FOR INSTALLATION ON ANY WATER SUPPLY IN MICHIGAN.

CAMPBELL - SANITARY YARD HYDRANT (SYH)

HIDE-DRANT CORPORATION – HIDE-DRANT MODEL 99 YARD HYDRANT (model number change, see below)

HIDE 7501-7503

HIDE 104-108

HOEPTNER PERFECTED PRODUCTS - FREEZE FLOW SANITARY YARD HYDRANT

MERRILL MFG. CO. - H-3000 SERIES WITH HEATING CABLE AND NO DRAIN HOLE

MURDOCK, INC. - EXPELO - SANITARY POST WATER HYDRANT

SIMMONS MANUFACTURING COMPANY – SIMMONS SANITARY YARD HYDRANT

WHITEWATER MFG. CO. - MODEL 256 FREEZE-PROOF/POLLUTION-PROOF YARD HYDRANT (**Out of Production**)

WOODFORD MFG. CO. - MODEL S1 FREEZE-PROOF/POLLUTION-PROOF YARD HYDRANT (**Out of Production**)

MODEL S2 SANITARY HYDRANT (**Out of Production**)

MODEL S3 SANITARY HYDRANT

MODEL S4H SANITARY HYDRANT

YARD HYDRANTS WITH BURIED STOP-AND-WASTE VALVES ARE PROHIBITED ON ALL TYPES OF WATER SUPPLIES, UNDER SECTION P1501.1.1 OF ARTICLE 15 OF THE MICHIGAN PLUMBING CODE, R 325.1674A OF THE RULES FOR PART 127, ACT 368, PA 1978, MICHIGAN PUBLIC HEALTH CODE, AND RULE 1108(3), ACT 399, PA 1976, MICHIGAN SAFE DRINKING WATER ACT.

BURIED PRESSURE TANKS

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ADVANCE-MORRISON

HORIZONTAL UNDERGROUND
PRESSURE TANK
BWS-116-120
BWS-116-220
BWS-116-315
BWS-116-500
BWS-116-1000
BWS-116-1500

AMTROL, INC.

WELL-X-TROL "UG"
(UNDERGROUND TANK)

A. O. SMITH

AQUA-AIR UNDERGROUND TANK

STATE INDUSTRIES COMPANY
Perma-Air Diaphragm Tank

PAD 14
PAD 31 or 32
PAD 36 or 36S
PAD 96
PAD 119
PCM 20
PCM 36S
PCM 52
PCM 88
RELIANCE
SBD 14
SBD 20
SBD 32
SBD 36S
SBD 52
SBD 86
SBD 96
SBD 119
STATE
SPMD 14
SPMD 20

SPMD 32
SPMD 36S
SPMD 52
SPMD 86
SPMD 96
SPMD 119
WELLSAVER
LPT 14
LPT 20
LPT 36S
LPT 52
LPT 86
LPT 119
LLT 25
LMT 20
LMT 36S
LMT 52
LMT 86

CLAYTON MARK

PRECHARGED UNDERGROUND
TANK

FLEXCON INDUSTRIES

WELL-RITE BG SERIES
WR 60BG WR 100BG WR 140BG
FLEX-LITE PRESSURE TANKS
FL5 FL7 FL12 FL17 FL22 FL28
FL30 FL40

IN-WELL TECHNOLOGIES

Fits into 4-inch, 5-inch, 6-inch, or larger
wells
NT-30SS¹ 3 5/8-inch dia, 102-inch length
NT-40SS² 4 1/2-inch dia, 48-inch length

MEDALIST MFG. CO.

PERMA PRESSURE II
AVU-H
TUVM

MERRILL MFG. CO.

"ULTIMATE BURIED TANK"
(POLYURETHANE FOAM ENCASED)

MONITOR (BAKER MFG. CO.)

TUVWF
TUVWM (Out of Production)

STA-RITE INDUSTRIES

"FIBERWOUND"
SR20-6S – 20 GALLONS
SR35-10S – 35 GALLONS
SR48-14S – 48 GALLONS
SR60-18 – 60 GALLONS
SR85-25 – 85 GALLONS
SR119-35 – 119 GALLONS

STRUCTURAL FIBERS

WELL-MATE UNDERGROUND TANK
WM-6 UG WM-14WB
WM-9 UG WM-20WB
WM-12 UG WM-25WB
WM-4 WM-35WB
WM-6 WM-4LP
WM-9 WM-6LP
WM-12 WM-9LP

THE AMERICAN GRANBY CO.

HARVARD CHAMPION "UG" SERIES
(UNDERGROUND TANK)

TITAN INDUSTRIES, INC.

Combo Tank

WHITEWATER MFG. CO.

PAT (PITLESS ADAPTER TANK)
60 – 1,500 GALLONS